### (19) World Intellectual Property **Organization**

International Bureau



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(43) International Publication Date 11 August 2005 (11.08.2005)

**PCT** 

(10) International Publication Number WO 2005/073592 A1

(51) International Patent Classification<sup>7</sup>: G03F 7/20

F16F 15/027,

(21) International Application Number:

PCT/IB2005/050160

(22) International Filing Date: 14 January 2005 (14.01.2005)

(25) Filing Language:

**English** 

(26) Publication Language:

English

(30) Priority Data: 04100271.8

EP 26 January 2004 (26.01.2004)

(71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Lindhoven (NL).

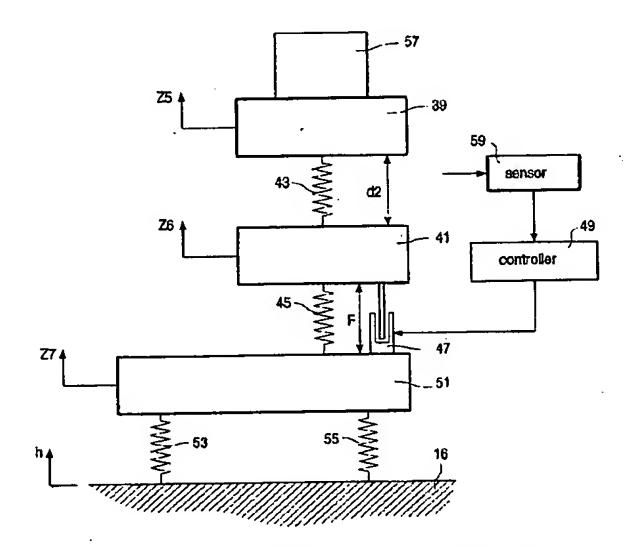
(72) Inventors; and

(75) Inventors/Applicants (for US only): WARMERDAM, Thomas, P., H. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). VERVOORDELDONK, Michael, J. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

- (74) Agents: ROLFES, Johannes, G., A. et al.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: ACTUATOR ARRANGEMENT FOR ACTIVE VIBRATION ISOLATION USING A PAYLOAD AS AN INERTIAL REFERENCE MASS



(57) Abstract: System for and method of active vibration isolation to isolate a payload (57) from earth movements. The system has a body (16; 51), a mass (41) supported by the body (51) by means of at least one spring (45), a further mass (39) supported by the mass (41) by means of at least one further spring (43). A sensor senses a distance between the mass (41) and the further mass (39) and generates a distance signal. A controller (49) receives the distance signal and generates a control signal based on the distance signal. An actuator (47) actuates a position of said mass (41) based on the control signal, whereas the further mass supports the payload to be isolated from earth (16).

005/073592

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#### Declaration under Rule 4.17:

a s to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM,

AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

#### Published:

— with international search report

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